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	Application No.	Applicant(s)	
Notice of Allowability	10/602,983	BYRNE ET AL.	
	Examiner	Art Unit	
	Dean O Takaoka	2817	
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS I herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	S (OR REMAINS) CLOSED i 5) or other appropriate comm RIGHTS. This application is	n this application. If not included unication will be mailed in due co	l ourse. <b>THIS</b>
1. This communication is responsive to			
2. The allowed claim(s) is/are <u>1-23</u> .		,	
3. $\boxtimes$ The drawings filed on <u>24 June 2003</u> are accepted by the	Examiner.		
<ul> <li>4. Acknowledgment is made of a claim for foreign priority</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents hat</li> <li>2. Certified copies of the priority documents hat</li> <li>3. Copies of the certified copies of the priority of International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	ve been received. ve been received in Application	on No	on from the
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requ	irements
5. A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which g			TICE OF
<ol> <li>CORRECTED DRAWINGS (as "replacement sheets") m</li> <li>(a) including changes required by the Notice of Draftspering</li> <li>1) hereto or 2) to Paper No./Mail Date</li> <li>(b) including changes required by the attached Examine Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in</li> </ol>	erson's Patent Drawing Revie —· er's Amendment / Comment o  t 1.84(c)) should be written on t	r in the Office action of the drawings in the front (not the b	ack) of
7. DEPOSIT OF and/or INFORMATION about the department attached Examiner's comment regarding REQUIREMEN			ite the
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SE Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposi of Biological Material	6) 6. Interview S Paper No. 3/08), 7. Examiner's	nformal Patent Application (PTO- Summary (PTO-413), ./Mail Date s Amendment/Comment s Statement of Reasons for Allow 	

Page 2

## **DETAILED ACTION**

## Allowable Subject Matter

Claims 1 - 23 are allowed.

The following is an examiner's statement of reasons for allowance:

Dionne shows a tunable microwave ferrite filter comprising a switchable ferrite microwave device, the switchable ferrite microwave device comprised of a gapped ferrite structure where coils are wound around the ferrite structure. While Dionne teaches reducing HM curve between saturation points (c7, lines 31-35) Dionne does not address reduction of saturation of the ferrite material with respect to frequency and does not indicate any suppression of current at a second frequency (claims 1, 11 and 21). Dionne teaches providing a gap in a toroid to provide variable magnetization points between two saturation points (Ha and Hb – Fig. 3b).

Morrill shows a tunable noise controller comprising a ferrite toroid (T1) and variable resistor (P1) but does not teach reducing saturation of the ferrite material at the first frequency allowing the ferrite material to suppress current at the second frequency (claims 1, 11 and 21). Morrill does not address saturation or reduction of saturation with respect to frequency and does not indicate any suppression of current of a second frequency. Morrill provides a noise cancellation device with noise phase cancellation of 180°.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably Art Unit: 2817

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Dionne – shows a tunable microwave ferrite filter.

Morrill - shows a universal noise controller.

Foley – shows a signal filter.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dean O Takaoka whose telephone number is (571) 272-1772. The examiner can normally be reached on 8:30a - 5:00p Mon - Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on (571) 272-1769. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

dot August 31, 2004

Nobert Pascal
y Patent Ensumer
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